

ABSTRACT OF THE DISCLOSURE

5 A frangible metal article such as a bullet and a method for making it. The frangible metal article is formed from a mixture of metal particles and metal or metalloid binder material which is compacted into the desired shape, heated to a temperature above that needed to form a transient liquid phase and at least one intermetallic compound but below the temperature of joining of the metal particles by sintering and below the temperature of formation of substantial amounts of a ductile alloy of the metal of the particles and the metal or metalloid binder material and then cooled. When such articles are formed into bullets they have sufficient strength to maintain their integrity during firing but disintegrate into powder on impact and can be formulated to be lead-free.

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